

ABSTRACT

Emotion detection is a challenging task because emotions are subjective. A lack of secure attachment can make opening up difficult. Due to this trauma, some people may feel reluctant to share their feelings. Thus, we need a companion bot who acts as a mood shifter to share our problems without fearing rejection.

The companion chatbot learns about the character of the user according to the previous chat or responses. By identifying the character, the bot recommends songs or content that the user might be interested in. The chatbot gives a quick response to the users' commands. So, we proposed a companion chatbot. This companion chatbot is designed to interact with a human via chat interface or voice messaging. The chatbot is implemented using the domains of Machine learning and AI. The chatbot consists of a Speech Recognition system. Also, we define a Speech Emotion Recognition (SER) system that classifies speech signals to detect emotions embedded in them. Also, a recommendation system is added to it which recommends content based on the current mood. The programming language used for the implementation of the chatbot is Python. The chatting conversations are conducted in the framework Django. The Naïve Bayes algorithm is used for identifying the intent of the user and thereby narrowing down the possible range of responses.

Through this project, we showed how we can leverage machine learning to obtain the underlying emotion from speech audio data and some insights into the human expression of emotion through voice.